NATURAL RESOURCE TECHNOLOGY
ENVIRONMENTAL CONSULTANTS

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Report:	**Weekly Progress Report**
Project:	**Former North Plant MGP Site Removal Action Construction Waukegan, Illinois**
Date:	April 16, 2014
Prepared By:	Natural Resource Technology, Inc. Andrew Millspaugh, EIT Glenn Luke, PE
Submitted To:	Integrys Business Support, LLC Naren M. Prasad, PE
Activity Period:	April 7, 2014 through April 12, 2014

Natural Resource Technology, Inc. Personnel on Site

- Andrew Millspaugh, **Field Engineer**
- Dan Vachon, **Field Technician**
- Chris Musson, **Field Engineer**
- Andrea Salus, **Field Engineer**
- Glenn Luke, **Project Manager**

USEPA Personnel on Site

- Andy Plier, **OTIE**

Integrys/North Shore Gas Personnel on Site

- Naren Prasad, **Project Manager**

Subcontractors on Site

- Geo-Solutions, Inc. (GSI), **Earthwork, In Situ Solidification/Stabilization**
- James Anderson Co., **Designated Erosion Control Inspector**
- McClure Engineering Associates, **Registered Land Surveyor**

Others

- Burns & McDonnell, **Perimeter Air Monitoring**

Visitors

- None

This report summarizes field activities performed by NRT, in addition to NRT's subcontractors, on behalf of IBS at the former North Plant MGP Site Time Critical Removal Action:

Site Activities

Removal Action Totals:

- Direct Disposal (Soil and Debris) through 4/12/14: 44,111.83 Tons
- In Situ Solidification/Stabilization (ISS) through 4/12/14: 177,724.62 Cubic Yards

NRT

- Managed site security and construction activities with IBS, GSI, WMI, and Burns & McDonnell.
- Facilitated and participated in daily safety meetings to evaluate potential safety concerns for the day's planned construction activities.
- Management and oversight of GSI's construction efforts throughout the week.
- Management and oversight of GSI during full-scale ISS construction in Removal Action Areas A and B with 12% reagent addition.
- Management and oversight of GSI during ISS swell grading in Removal Action Area A.
- Management and oversight of McClure during documentation survey of Removal Action Area A ISS swell grades.
- Coordination and scheduling of disposal trucks with WMI and GSI.
- Prepared Construction Quality Assurance (CQA) samples from full-scale ISS (11 samples) for unconfined compressive strength (UCS) (ASTM D1633) and hydraulic conductivity (ASTM D5084) laboratory testing by Timely Engineering Soil Tests (T.E.S.T.). Test results to be compared to ISS performance goals established in the Removal Action Work Plant (RAWP).
- Received and reviewed ISS CQA sample test results for unconfined compressive strength (UCS) (ASTM D1633) and hydraulic conductivity (ASTM D5084). Laboratory testing is completed by Timely Engineering Soil Tests (T.E.S.T.). Test results are compiled and compared to the ISS performance goals established in the Removal Action Work Plan (RAWP).
- Construction survey verification of ISS column locations and elevations, pertinent site features, Removal Action Areas, historical foundations, etc.
- Accompanied James Anderson Co. during a weekly erosion control inspection on Wednesday (4/9).
- Monitored site conditions for traffic flow, fugitive dust, odors, and general overall safety.
- Conducted periodic worker health and safety air monitoring in the work zone.

Geo-Solutions Inc.

- Continued full-scale ISS construction in Removal Action Areas A and B with 12% reagent addition. 9,313.14 cubic yards of ISS was completed.
- Continued grading ISS swell material to final design elevations in Removal Action Area A.
- Received 41 loads of ground granulated blast furnace slag (GGBFS) and 12 loads of Portland cement for full-scale ISS construction.
- Water management within Removal Action Areas.

- Implemented fugitive emission controls during shallow soil excavation, subsurface structure demolition and removal, and offsite trucking. Emission controls include water for dust suppression, Rusmar foam for odor and VOC emissions, and stockpile covering with scrim reinforced plastic.
- Maintained and administered site exclusion zones, decontamination areas, and site health and safety procedures.
- Conducted worker health and safety air monitoring in the work (exclusion) zone.

James Anderson Company

- Completed a weekly erosion control inspection on Wednesday (4/9). The inspections were performed in accordance with the Watershed Development Permit and the general National Pollutant Discharge Elimination System (NPDES) permit.

McClure Engineering Associates

- Completed a documentation survey of the graded ISS swell surface in the northern portion of Removal Action Area A.

Changes to Scope of Work

- None

Open/Outstanding Items

- None

Work planned for the week of April 7, 2014 through April 12, 2014

- Perform perimeter Air Monitoring.
- Full-scale ISS construction in Removal Action Areas A and B with the Manitowoc 4000w and Delmag RH-28.
- Receive and evaluate ISS CQA data.
- Continue pre-excavation activities in Removal Action Areas A and B.
- Continue grading ISS swell material to design grades in Removal Action Area A.
- Begin backfilling the north portion of Removal Action Area A.

A Weekly Progress Report will be issued throughout the duration of field activities for this Time Critical Removal Action. A written report summarizing the results of the Removal Action will be provided following completion of all field activities. A summary of the perimeter air monitoring activities, as detailed by the Air Monitoring Contractor, is included with this report as Attachment 1.

Please contact us if you have any questions.

Sincerely,

NATURAL RESOURCE TECHNOLOGY, INC.

Glenn Luke, PE
Environmental Engineer

Attachment 1: Burns and McDonnell Weekly Air Monitoring Report

NATURAL RESOURCE TECHNOLOGY

Field Photos:

Photo 1: GSI performing ISS construction with the Delmag RH-28 and Manitowoc 4000w in Removal Action Areas A and B.

Direction: East

Photo Date: 4/10/14

Photo Taken By: CJM

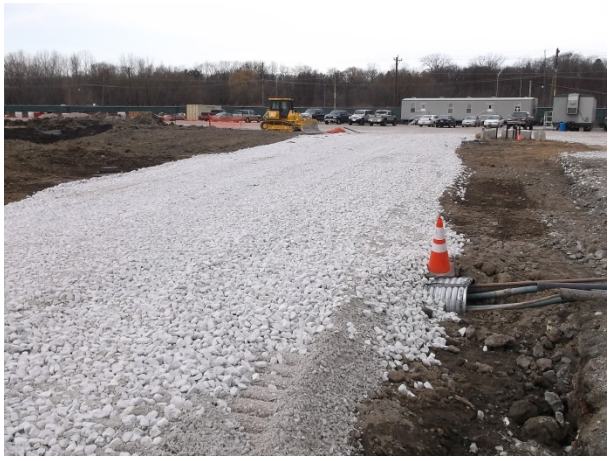

Photo 2: Temporary access road for trucks to deliver backfill to Removal Action Area A.

Direction: West

Photo Date: 4/12/14

Photo Taken By: AMM

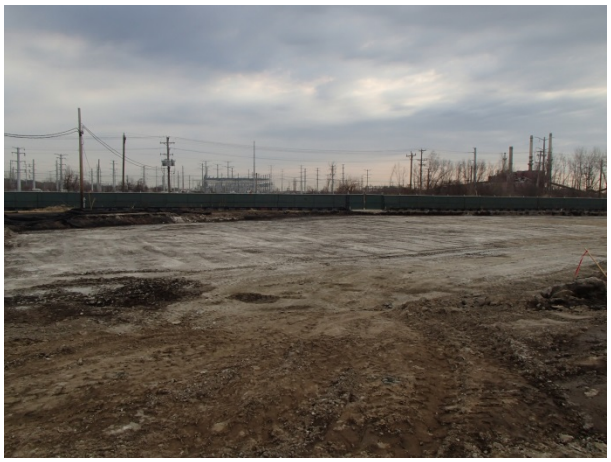

Photo 3: Graded ISS surface in Removal Action Area A.

Direction: North

Photo Date: 4/12/14

Photo Taken By: AMM

ATTACHMENT 1

1431 Opus Place, Suite 400
Downers Grove, Illinois 60515

Record of Weekly Ambient Air Monitoring Activities
Former North Plant MGP Site

Date Period: April 7 – 13, 2014

Burns & McDonnell is performing ambient air monitoring and sampling along the site perimeter at the Former North Plant MGP Site in accordance with the *North Plant MGP Site – Removal Action Work Plan (RAWP)*. We are completing real time ambient air monitoring 24-hours a day, seven days a week at seven locations (AMS-1 through AMS-7) along the Site perimeter. We are collecting 24-hour perimeter air samples at upwind and downwind locations at the Air Monitoring Stations on a routine basis at frequencies and quantities outlined in the RAWP. Burns & McDonnell is also performing real-time handheld and observation monitoring as described in the RAWP. This weekly report describes air monitoring activities for the week of April 7 – 13, 2014 and includes:

Tasks	Ambient Air Monitoring Activities
Sampling Activities Performed	A total of 9 SUMMA canister air samples including one duplicate air sample and 4 PUF air samples were collected and submitted to STAT Analysis for BTEX/Naphthalene and select PAH analyses, respectively.
BMcD Field Personnel	Ross Hartwick Josh Meyers Jason Wuerch Erik Ehrengren
Equipment Deployed	AirLogics Air Monitoring Stations SUMMA canisters with 24-hour flow regulators PUF sampling systems Photo ionization detector (PID) TSI Dusttrak monitoring device

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Figure 1: Site Map